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Substitute for form 1449A/PTO (Modified)				Complete if Known	
				Application Number	09/782,004
				Filing Date	February 12, 2001
				First Named Inventor	DAHIYAT, Bassil I.
				Group Art Unit	1627
				Examiner Name	WESSENDORF, Teresa D.
Sheet	1	of	1	Attorney Docket Number	A-67229-6/RFT/RMS/RMK (463077-5)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.*	U.S. Patent Document Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
MJ	A1	5,265,030	11-23-1993	Skolnick et al.	RECEIVED JUL 10 2003
MJ	A2	5,878,373	03-02-1999	Cohen et al.	
	A3				
	A4				
	A5				
	A6				
	A7				
	A8				
	A9				
	A10				

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No.*	Foreign Patent Document Country Code <sup>2</sup> Number <sup>3</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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MJ	C1	Fechteler T, et al., "Prediction of protein three-dimensional structures in insertion and deletion regions: a procedure for searching data bases of representative protein fragments using geometric scoring criteria." J Mol Biol. 1995 Oct 13;253(1):114-31.			
MJ	C2	Malakauskas SM, and Mayo SL. "Design, structure and stability of a hyperthermophilic protein variant." Nat Struct Biol. 1998 Jun;5(6):470-5.			
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MJ	C4				
	C5				

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				Application Number	09/782,004	OCT 08 2002
				Filing Date	February 12, 2001	
				First Named Inventor	Bassil I. Dahiyat	
				Group Art Unit	1645	
Examiner Name	not yet assigned					
Sheet	1	of	4	Attorney Docket Number	A-67229-6/RFT/RMS/RMK	

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		Number	Kind Code <sup>2</sup> (if known)			
MPY	A1	4,939,666		Hardman, K.D.	07/03/1990	
	A2	5,241,470		Lee et al.	08/31/1993	
	A3	6,188,965		Mayo et al.	02/13/2001	
MWJ	A4	6,269,312		Mayo et al.	07/31/2001	

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		Office <sup>3</sup>	Kind Code <sup>4</sup> Number <sup>4</sup> (if known)			
MWJ	B1	WO	98/47089	A1	CALIFORNIA INSTITUTE OF TECHNOLOGY	10/22/1998

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	C2	Borman, "Proteins to Order," Chemical and Engineering Newsletter (C&EN) Oct. 6, 1997, 9-10 (1997).				
	C3	Bowie, J.U., et al., "Deciphering the Message in Protein Sequences: Tolerance to Amino Acid Substitutions", Science vol. 247:1306-1310 (Mar. 1990).				
	C4	Brooks et al., "CHARMM: A Program for Macromolecular Energy, Minimization, and Dynamics Calculations," J. of Computational Chemistry, 4(2):187-217 (1983).				
	C5	Connolly, M.L., "Solvent-Accessible Surfaces of Proteins and Nucleic Acids", Science vol.221(4612):709-713 (Aug. 1983).				
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				First Named Inventor	Bassil I. Dahiyat
				Group Art Unit	1645
				Examiner Name	not yet assigned
Sheet	2	of	4	Attorney Docket Number	A-67229-6/RFT/RMS/RMK

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MWS	C7	Dahiyat, B.I., et al., "Automated design of the surface positions of protein helices", Protein Science 6:1333-1337 (Jun. 1997).			
	C8	Dahiyat et al., "Protein design automation," Caltech Biology Annual Report, 172 (1995).			
	C9	Dahiyat et al., "Protein Design Automation," Meeting Abstract; Protein Science vol. 4, Suppl. 2, 83 (1995).			
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	C16	Desmet, J., et al., "The 'Dead End Elimination' Theorem: A New Approach to the Side Chain Packing Protein", from "The Protein Folding Problem and Tertiary Structure Prediction" Ch.10:1-49 (1994).			
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	C20	Eisenberg, D., et al., "Solvation energy in protein folding and binding", Nature vol.319:199-203 (Jan. 1986).			
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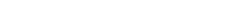
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				<p>First Named Inventor</p> <p>Bassil I. Dahiyat</p>	
				<p>Group Art Unit</p> <p>1645</p>	
				<p>Examiner Name</p> <p>not yet assigned</p>	TECH CENTER 1600/2000
				<p>Attorney Docket Number</p> <p>A-67229-6/RFT/RMS/RMK</p>	
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Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.

M21	C22	Gordon et al. "Energy functions for protein design," Curr. Opinion in Struct. Biol., 9:509-513 (1999).
	C23	Harbury et al., "High-Resolution Protein Design with Backbone Freedom," Science, 282:1462-1467 (1998).
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	C25	Hellinga, H.W., "Rational protein design: Combining theory and experiment", Proc. Natl. Acad. Sci, USA vol.94:10015-10017 (Sep. 1997).
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	C29	Kortemme et al., "Design of a 20-Amino Acid, Three-Stranded $\beta$ -Sheet Protein," Science, 281:253-256 (1988).
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	C32	Lazar et al., "De novo design of the hydrophobic core of ubiquitin," Protein Science 6:1167-1178 (1997).
	C33	Lee et al., "Accurate prediction of the stability and activity effects of site-directed mutagenesis on a protein core," Nature, 352:448-451 (1991).
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M22	C36	Minor Jr., D.L., "Measurement of the .beta.-sheet-forming propensities of amino acids", Nature vol.367:660-663 (Feb. 1994).
	C37	Munoz, V., et al., "Helix design, prediction and stability", Curr. Opin. in Biotech. 6:382-386 (Aug. 1995).

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MN	C38	Munoz, V., et al., "Intrinsic Secondary Structure Propensities of the Amino Acids, Using Statistical phi-psi Matrices: Comparison with Experimental Scales", Proteins 20:301-311 (1994).			
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	C48	Tuffery et al., "A New Approach to the Rapid Determination of Protein Side Chain Conformations," J. of Biomolecular Struct. & Dynamics, 8(6):1267-1289 (1991).			
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	C52	Wilson et al. "Computational Method for the Design of Enzymes with Altered Substrate Specificity," J. Mol. Biol. (1991) 220,495-506.			
MN	C53	Wodak, S.J., et al., "Analytical approximation to the accessible surface area of proteins", Proc. Natl. Acad. Sci. USA vol.77(4):1736-1740 (Apr. 1980).			

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